

Air Quality PERMIT TO CONSTRUCT

State of Idaho Department of Environmental Quality

PERMIT No.: P-060119

FACILITY ID No.: 017-00029

AQCR: 63

CLASS: SM

SIC: 2499

ZONE: 11

UTM COORDINATE (km): 536.4, 5351.3

1. **PERMITTEE**

Lignetics Inc.

2. PROJECT

Permit to Construct Modification – Installation of New Dryer Line

3. MAILING ADDRESS P.O. Box 1706	CITY Sandpoint	STATE ID	ZIP 83864
4. FACILITY CONTACT Ken Tucker	TITLE General Manager	TELEPHONE (208) 263-0564	
5. RESPONSIBLE OFFICIAL Ken Tucker	TITLE General Manager	TELEPHONE (208) 263-0564	
6. EXACT PLANT LOCATION Highway 200 East, Kootenai, Idaho		COUNTY Bonner	

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Wood pellet fuel plant

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.

TONI HARDESTY, DIRECTOR	DATE ISSUED:	PUBLIC COMMENT
DEPARTMENT OF ENVIRONMENTAL QUALITY		

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Acronyms, Units, and Chemical Nomenclature

AQCR Air Quality Control Region

CFR Code of Federal Regulations

CO carbon monoxide

DEQ Department of Environmental Quality

EPA U.S. Environmental Protection Agency

gals/hr gallons per hour

HAPs hazardous air pollutants

a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act **IDAPA**

km kilometer

lb/hr pounds per hour

lb/yr pounds per year

MMBtu/hr million British thermal units per hour

 NO_{x} nitrogen oxides

O & M Operations and Maintenance

PM particulate matter

 PM_{10} particulate matter with an aerodynamic diameter less than or equal to a nominal 10

micrometers

parts per million ppm

PTC permit to construct

SM synthetic minor

SIC Standard Industrial Classification

 SO_2 sulfur dioxide

sulfur oxides SO_{x}

T/yr tons per year

UTM Universal Transverse Mercator

VOC volatile organic compound

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1.0 PERMIT TO CONSTRUCT SCOPE

Purpose

- 1.1 This permit is a modification of the facility's existing PTC. This permit modification only affects the dryer line. This permit allows for the construction of a new dryer line, which will consist of a new rotary drum dryer, a high efficiency primary cyclone that will remove particulate matter from the dryer's exhaust gas stream, a larger induced draft fan, a single stage quad multiclone sized for the new dryer's maximum airflow capacity, and a new taller and wider exhaust stack. The new dryer line is being installed for economic reasons due to the increased price of natural gas.
- 1.2 This PTC replaces PTC No. P-000126, issued on August 18, 2003, the terms and conditions of which shall no longer apply.

Regulated Sources

Table 1.1 lists all sources of regulated emissions in this PTC.

Table 0.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	Wood burner	High efficiency primary cyclone & quad multiclone
2	Multi-fuel burner	High efficiency primary cyclone & quad multiclone
2	Dryer (Main) stack	High efficiency primary cyclone & quad multiclone
2	Fines cyclone stack	Cyclone
2	Pellet cooler stack	Cyclone

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2.0 WOOD PELLET MANUFACTURING

2.1 Process Description

This facility processes green sawdust and wood shavings from lumber mills (wood furnish) into wood pellets and "presto" logs used as wood fuel in pellet stoves and traditional wood stoves and fireplaces. Currently, the green wood furnish is dried in a rotary dryer fueled by either natural gas, fuel oil, or a mixture of fuel oil and used-oil-derived-fuel. The multi-fuel burner that combusts these fuels is located at the entrance of the rotary dryer and is rated at 30 MMBtu/hr.

Lignetics proposes to construct a new dryer line using a mixture of new and existing equipment. Additionally, Lignetics proposes to construct a new wood-fired burner that will be used as the primary heat source for the dryer. The wood-fired burner is rated at 45 MMBtu/hr. A portion of the dried furnish will be diverted and used as fuel for the wood-fired burner. Lignetics retains the ability to use the multifuel burner; however, only one burner can be operated at any given time due to the design of the new dryer line.

Emissions Control Description

Combustion product emissions from the burners are vented into the drum dryer, which then vent to a high efficiency primary cyclone and quad multiclone connected in series. A natural gas-fired, hot water boiler located on site has no control equipment.

Table 0.1 EMISSIONS UNIT NAME DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point	
Drver burners	High efficiency primary cyclone &	Dryer (main)	
Diyer burners	quad multiclone	stack	

Emissions Limits

2.3 <u>Emissions Limits</u>

- The PM, PM₁₀, SO₂, NO_X, and CO emissions from the dryer stack shall not exceed any corresponding emissions rate limits listed in Table 2.2.
- The PM and PM₁₀ emissions from the fines cyclone stack and the pellet cooler stack shall not exceed any emissions rate limits listed in Table 2.2.

Table 0.2 EMISSIONS LIMITS

Source	P	PM		PM_{10}		SO ₂		NO_X		со	
Description	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
Dryer (main) Stack	16.9	45.3	15.7	44.1	14.91	65.3	9.6	42	15	66	
Fines cyclone Stack	0.7	3.1	0.7	3.1							
Pellet cooler Stack	0.26	1.2	0.26	1.2							

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- 2.4 Arsenic emissions from the dryer stack shall not exceed 1.35X10⁻³ pounds per hour (lb/hr). Arsenic emissions from the dryer stack shall not exceed 11.8 pounds per any consecutive 12-month period (lb/yr).
- 2.5 Hexavalent Chromium emissions from the dryer stack shall not exceed 4.86X10⁻⁴ lb/hr. Hexavalent Chromium emissions from the dryer stack shall not exceed 4.28 lb/yr.
- 2.6 Nickel emissions from the dryer stack shall not exceed 2.47X10⁻³ lb/hr. Nickel emissions from the dryer stack shall not exceed 216.4 lb/yr.
- 2.7 Lead emissions from the dryer stack shall not exceed 0.16 lb/hr. Lead emissions from the dryer stack shall not exceed 0.72 T/yr.
- 2.8 Formaldehyde emissions from the dryer stack shall not exceed 0.81 lb/hr. Formaldehyde emissions from the dryer stack shall not exceed 3.5 T/yr.

2.9 Opacity Limit

Emissions from any stack, vent, or functionally equivalent opening shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using the procedures contained in IDAPA 58.01.01.625.

2.10 Visible Emission at Property Boundary

Visible emissions shall not be observed leaving the property boundary at any time. Visible emissions shall be determined by EPA Reference Method 22, as described in 40 CFR 60, Appendix A, or using a DEQ-approved alternative method.

2.11 Control of Odors

The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

Operating Requirements

2.12 Allowable Burner Fuel

The permittee shall use only wood furnish, natural gas, No. 2 fuel oil, or a mixture of No. 2 fuel oil and used-oil-derived fuel as burner fuel.

2.13 Wood Furnish Processing Limit and Moisture Content Specification

Wood furnish feed to the drum dryer shall not exceed 650 tons per day based on a feed material moisture content of 45%.

2.14 Natural Gas And Wood Furnish Combustion

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- When natural gas is combusted exclusively, no throughput limit applies.
- When wood furnish is combusted exclusively, no throughput limit applies.

2.15 No. 2 Fuel Oil Specifications

- The permittee shall not combust more than 210 gallons of No. 2 fuel oil per hour.
- The sulfur content in the No. 2 fuel oil shall not exceed 0.5% by weight as required by IDAPA 58.01.01.728.
- The No. 2 fuel oil combusted by the existing burner shall not exceed the fuel specification limits of Table 2.3.

2.16 <u>Used-Oil-Derived-Fuel Specifications</u>

Used-oil-derived-fuel used as burner fuel shall not exceed any of the fuel specification limits listed in Table 2.3:

Table 2.3 FUEL SPECIFICATIONS

Arsenic	0.77 ppm
Chromium (hexavalent)	0.28 ppm
Nickel	14.13 ppm
Ash (% by weight)	0.80
Sulfur(% by weight)	0.50
Lead	100 ppm

2.17 No. 2 Fuel Oil and Used-Oil-Derived-Fuel Mixture Limits and Specifications

- The permittee may combust a mixture of 20% by volume No. 2 fuel oil and 80% by volume used-oil-derived-fuel (i.e. fuel mixture).
- The permittee shall not combust more than 210 gallons of the fuel oil mixture.
- The permittee shall not operate the multi-fuel burner for more than 2,160 hours per any consecutive 12-month period when combusting the fuel oil mixture.

2.18 Detection Limit of Analysis Method for Used-Oil-Derived-Fuel

The detection limit of analysis methods used to determine the concentrations of arsenic, hexavalent chromium, and nickel in the used-oil-derived-fuel shall be 10% or less of the concentration limits listed in Table 2.3.

2.19 Dryer Burner Heat Input Capacity Limits

- The natural gas and fuel oil multi-fuel burner shall not have a rated heat input capacity greater than 30 MMBtu/hr.
- The wood furnish-fired burner shall not have a rated heat input capacity greater than 45 MMBtu/hr.

2.20 Dryer Burner Operations

The natural gas and fuel oil multi-fuel burner and the wood-fired burner shall not be operated concurrently.

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2.21 <u>Dryer Temperature</u>

The maximum dryer temperature, as measured by any of the temperature sensors specified in Permit Condition 2.28 shall not exceed 1,200° F.

2.22 Reasonable Control of Fugitive Emissions

All reasonable precautions shall be taken to prevent PM from becoming airborne as required in IDAPA 58.01.01.651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:

- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
- Application, where practical, of asphalt, water or suitable chemicals to, or covering of dirt roads, material stockpiles, and other surfaces that can create dust.
- Installation and use, where practical, of hoods, fans and fabric filters, or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
- Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
- Paving of roadways and their maintenance in a clean condition, where practical.
- Prompt removal of earth or other stored material from streets, where practical.
- Maintaining material stockpiles below heights of material netting.

2.23 Operations and Maintenance Manual Requirements

Within 60 days after startup, the permittee shall have developed an O&M manual for the high efficiency primary cyclone and the quad multiclone listed in Permit Condition 2.2 which describes the procedures that will be followed to comply with General Provision 2, and the air pollution control device requirements contained in this permit. The manual shall remain onsite at all times and made available to DEQ representatives upon request.

2.24 Air Pollution Emergency Rules

The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

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Monitoring and Recordkeeping Requirements

2.25 Fuel Switch

The permittee shall monitor and record each time the burner fuel is switched between the natural gas and fuel oil multi-fuel burner and the wood-fired burner. Records of this information shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

2.26 Used-Oil-Derived Fuel And No. 2 Fuel Oil Certification

The permittee shall demonstrate compliance with the used-oil-derived-fuel and No. 2 fuel oil specifications in Permit Conditions 2.15 and 2.16 by obtaining a certification from the fuel supplier of each fuel on an asreceived basis. The certification shall include the following information:

- The name and address of the fuel oil supplier.
- The measured concentration, expressed as ppm, of each constituent listed in Table 2.3.
- The ash content and the sulfur content of the fuel oil expressed as percent by weight (% by wt), as listed in Table 2.3.
- The analytical method or methods used to determine the concentration of each constituent, the fuel oil sulfur content, and the ash content listed in Table 2.3.
- The date and location of each sample.
- The date of each certification analysis.

2.27 Wood Furnish Throughput and Other Parametric Monitoring

The permittee shall monitor and record the following information as prescribed:

2.27.1 Wood Furnish Throughput and Moisture Content Monitoring

- The permittee shall install, calibrate, maintain, and operate a monitoring device to continuously measure the amount of wood furnish processed by the drum dryer per hour and while operating to demonstrate compliance with Permit Condition 2.13. The monitoring device must be certified by the manufacturer to be accurate within 5% of the measured value and must be calibrated on at least an annual basis in accordance with manufacturer instructions.
- The permittee shall monitor and record the moisture content of the wood furnish once per week to demonstrate compliance with Permit Condition 2.13.

2.27.2 No. 2 Fuel Oil Throughput Monitoring

- The permittee shall monitor and record the amount of No. 2 fuel oil combusted by the multi-fuel burner per hour and while operating to demonstrate compliance with Permit Condition 2.15.
- The permittee shall demonstrate compliance with the fuel oil sulfur content limit specified in Permit Condition 2.15 by obtaining documentation of the sulfur content analysis for each shipment of No. 2 fuel oil on an as-received basis.

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2.27.3 No. 2 Fuel Oil and Used-Oil-Derived-Fuel Mixture Monitoring

- The permittee shall monitor and record the amount of No. 2 fuel oil and used-oil-derived-fuel mixture combusted by the multi-fuel burner per hour and while operating to demonstrate compliance with Permit Condition 2.17.
- The permittee shall monitor and record the percent by volume No. 2 fuel oil and the percent by volume used-oil-derived-fuel oil contained in the fuel mixture combusted in the multi-fuel burner to demonstrate compliance with Permit Condition 2.17.
- The permittee shall monitor and record the hours of operation the multi-fuel burner operates when combusting the No. 2 fuel oil and used-oil-derived-fuel mixture monthly and annually to demonstrate compliance with Permit Condition 2.17. The annual hours of operation shall be determined by summing each monthly hours of operation over the previous consecutive 12-month period.

2.28 Dryer Temperature Monitoring

The permittee shall install, calibrate, maintain, and operate a monitoring system for the continuous measurement and recording of the gas temperature at the drum dryer inlet to demonstrate compliance with Permit Condition 2.21. All components of the monitoring system (sensors, chart recorder, alarm, and associated hardware) must be certified by the manufacturer to be accurate within 2% of the measured value and must be calibrated on at least a quarterly basis in accordance with manufacturer instructions.

The monitoring system must meet the following requirements:

- At least three temperature sensors shall be installed in a collinear arrangement across the dryer inlet opening. The first shall be located at the center of the dryer inlet while the second and third shall be located on opposite sides of the first and midway between the refractory wall and the center of the dryer.
- Each temperature sensor shall be shielded from radiant heat effects.
- The dryer-inlet gas-temperature monitoring system shall be equipped with an alarm to alert the operator if the inlet dryer gas temperature is in excess of that allowed by Permit Condition 2.21.

Each exceedance of the inlet dryer gas temperature allowed by Permit Condition 2.21 shall be addressed using the procedures contained in IDAPA 58.01.01.130-136.

2.29 **Opacity Monitoring**

The permittee shall conduct a weekly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions to demonstrate compliance with Permit Condition 2.9. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee

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shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

2.30 Fugitive Dust Complaint Records

The permittee shall maintain records of all fugitive dust complaints received. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

2.31 Reasonable Control Measures

The permittee shall monitor and record, during operation, the periodic method(s) used to reasonably control fugitive emissions from this facility. The records shall include the type of control used (e.g., water, environmentally safe chemical dust suppressants, spray bars, screen deck covers, etc.) as well as the circumstances under which no controls are used.

2.32 Odor Complaint Records

The permittee shall maintain records of all public odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received, and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

2.33 Records Retention and Reporting

Records of information required by Permit Conditions 2.25 through 2.32 shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

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3.0 PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.

[Idaho Code §39-101, et seq.]

2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.

[IDAPA 58.01.01.211, 5/1/94]

3. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.

[IDAPA 58.01.01.212.01, 5/1/94]

Inspection and Entry

- 4. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
 - a. Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108]

Construction and Operation Notification

- 5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
 - a. A notification of the date of initiation of construction, within five working days after occurrence;
 - b. A notification of the date of any suspension of construction, if such suspension lasts for one year or more:

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- c. A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
- d. A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- e. A notification of the initial date of achieving the maximum production rate, within five working days after occurrence production rate and date.

[IDAPA 58.01.01.211, 5/1/94]

Performance Testing

6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

7. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original stripchart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEO representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

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8. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

9. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

10. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

Tampering

11. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Transferability

12. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06. [IDAPA 58.01.01.209.06, 4/11/06]

Severability

13. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.